

LIS	1	MEPNKDDNVSLAATAQISAPPVLQDASSLPGFSAIAPPVVPSSFPPPMAPIPMMPHPPVAR
AAD25639	1	-
hPRP4	1	-----MASSRASSTQATKTAKPDDLVAPVVKKPHIYYGSLEEKERER
cPRP4	1	-----MAENGNFAVPAPPR
yPRP4	1	-----MSKYIALENLPVDL
LIS	61	PPTFRPPVSQNGGVKTSDSDESDEHIEIISESKQVRERO-EKALQDLLVKRRAAAMAV
AAD25639	1	-
hPRP4	43	LAKGESGILGKDGLKAGIEAGNINITSGEVFEIEERISERQ-AEVLAEFERRKRARQINV
cPRP4	15	QFGSLANAEVNAILNAQQQNHGPTVSLERMEVSNQADSRHDAEMFAEFDRRRRARTLTL
yPRP4	15	QHKGATQNES-----TADILKQLP--HERLQ---AVLEKI
LIS	120	PTNDKAVRDRLRRLGEPI TLFGEQEMERRARLTOLLTRYDINGQLDKLVKDHEEDVTPKE
AAD25639	1	-
hPRP4	102	STDDSEVKACLRALGEPI TLFGEGPAERRERLRLRNILSVVGT-----ALKTKKDD-EKS
cPRP4	75	PTDDVQVKKLRLALNQPICLFGEDALDRRERLRLALLSTMSED-EIAAVLHTDEVN--ADK
yPRP4	45	PEEDELEVRRLLSILKKPEVVENEDVQQRIRLAEILMVDEID--LENINNMENIN--GEE
LIS	180	EVDDEVLEYPFFTTEGPKEELREARIEITAKFSVKRAAVRIORAKRRRDDPDE-DMDAETKWA
AAD25639	1	-----MGPTTELREARIEITKDFIKRAALRIQRENRRRNDPDE-DKNAETKLA
hPRP4	156	KKSKEEYQQTWWYHEGPNSLKVARLWIANYSLPRAMKRLEEARLHKEIPET-TRTSQMQUE
cPRP4	132	ADEET--VTWYHRGPIELRMRARVSIA DFSLRKAKLRLDKAREEEAAREAH-EKALARQEAA
yPRP4	101	VDEED--DEDFFTPATSELIFARRFLINYSLERSRKRLQEMERHQKFNTROELLSRRT
LIS	239	LKHAKHMALDCSNFGDDRPLTGCSFSRDGKILATCSLSGVTKLWE MPQVTNTIAVLKDHK
AAD25639	47	LKHCKDMVLGSSKF GDDRPLTGCSLSRDGKILVTCSSLGVPKLWE VPQVTNKIVVILGHK
hPRP4	215	HKSLSLNNFCSQIGDDRPISYCHFSPNSKMLATA CWSGLCKLWSVPDCN-LLHTLRLGHN
cPRP4	188	HKWVQQINLHASQVADTRPVAFCEFSADSEHIVTAGWSGSVAVWKREQCA-QEIKFIGHS
yPRP4	159	LORMANLELAGSQLVSTKPIASVSLSTDMMVATGSWAGDLQVLNSQTQPLTQKLD SHV
LIS	299	ERATDVVFSS-----PVDDCLATASADRTAKLWKTDG-----TLLQT FEGHLDRLARV
AAD25639	107	EHVTDVVVFSS-----VDDCLATASADRTAKLWKTDG-----TLLQT FKG
hPRP4	274	TNVGAIVFHPKSTVSLDPKDVNLASCAA DGSVKLWLSDSD-----EPVADIEEGHTVRVARV
cPRP4	247	SQAGCARFHGAFTQNDYSSLNVVSCSYDGTULLWSLSQE-----SPIGELEOHPQRVSKV
yPRP4	219	GKIGAIDWHP-----DSNNQMISCAEDGLIKNFQYSNEEGGLRLLGDLVGHERRISDV
LIS	346	AFHPSGKYLGTTSYDKTWLWDINTGAELLLOEGHSRSVYVIAFOQDGALAASCGLDSLASSGFDSLA
AAD25639	146	-
hPRP4	330	MWHPSGRFLGTTCYDRSWRLWDLEAQEEILHQEGHSMGVYDIAFHODGSLAGTGGIDAFG
cPRP4	303	AFHPNGHHLATACFDSTWRMYDLTTK KELLYQE GHSKSVADVAFHPDG SVAL TGGHD CYG
yPRP4	272	KYHPSGKFIGSASHDMTWRLWDASTHQELLLOEGHDKGVFSLSFQCDGSLVCSGGMDSL
LIS	406	RVWDLRTGRSILVFOGHIKPVFSVNFSPNGYHLASGGEDNQCRIWDLRMRK--SLYIIIPA
AAD25639	155	RVWDLRTARNILIFQGHIKQVL SVDfspNGYHLASGGEDNQCRIWDLRMRK--LLYIIIPA
hPRP4	390	RVWDLRTGRCIMFLEGHLKEIYGINFSPNGYHIA TGSQDN TCKVWDLRQRR--CVYTI
cPRP4	363	RVWDLRTGRCIMFLDGHTKEIHSVEWMPNGYEMITGSSDNMSKVWDLRMRR--NTYTM
yPRP4	332	MLWDI RSGSKVMTLAGHSKPIIYTVAWSPNGYQVATGGGDGIINVWDIRKREGOLNQILA
LIS	464	HANLVSOVKYEP-OEGYFLATASYDMKVNIWSGRDFSLVKSLAGHESKVASLDITADSSC
AAD25639	213	HVNLVSOVKYEP-QERYFLATASYDMKVNIWSGRDFSLVKSLVGHESKVASLDIAVDS
hPRP4	448	HQNLVTVVKFEP-IHGNFLLTGAYDNTAKIWT HPGWSPLKTLAGHEGKVMGLDISSD
cPRP4	421	HTSVVTRVRAD--AAGQYLV SASFDCTLKMWSTTGWQPLRQLOGHDT RILCVDISP DQW
yPRP4	392	HRNIVTQVRFSKEDGGKKLVSCGYDNLINVYSSDTWLKMGSLAGHTDKIISLDISNNSHF
LIS	523	IATVSHDRTIKLWTSSGNDDDEEKE TMDIDL
AAD25639	272	RKCFA-----
hPRP4	507	IATCSYDRTFKLWMAE-----
cPRP4	479	MCSSAFDRTFKLWAQSDY-----
yPRP4	452	LVSGGWDRSIKLWN-----

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Figure S1